TEKCOMM

Terminal Numérique Terrestre Haute Définition TCT2100

Manuel d'utilisation
User Manual

Fig. 1

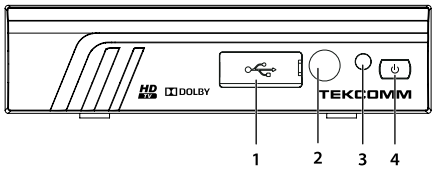


Fig. 2

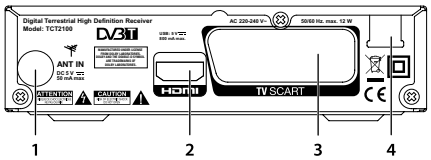


Fig. 3

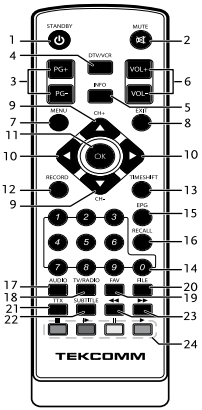


Fig. 4

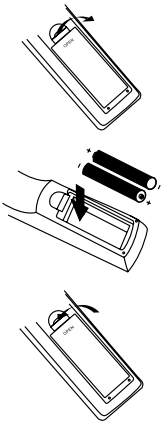


Fig. 5

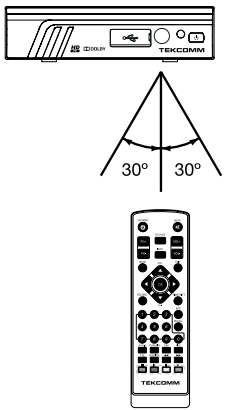


Fig. 6

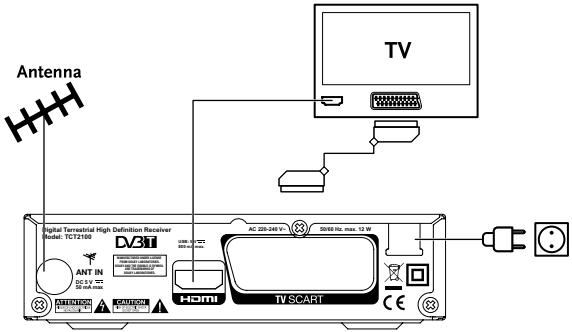


Fig. 7

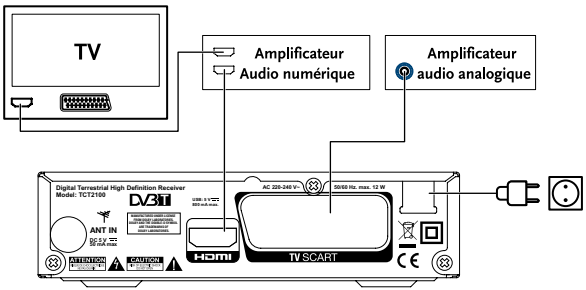
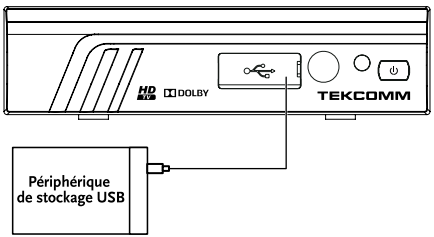


Fig. 8



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TEKCOMM declares that this item complies with the basic requirements and other relevant regulations of directives 2004/108/EC and 73/23/EC, RoHS 2002/95/EC

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1.0 INTRODUCTION

1.1 Safety Instructions

DO NOT INSTALL YOUR RECEIVER:

- In a closed or poorly ventilated cabinet; directly on top of or under any other equipment; on a surface which might obstruct the ventilation slots.

DO NOT EXPOSE THE RECEIVER OR ITS ACCESSORIES:

- To direct sunlight or any other equipment that generates heat; to rain or intense moisture; to intense vibration and to any shock which may cause permanent damage to your receiver or to any magnetic objects, such as loudspeakers, transformers, etc.
- Do not use a damaged power cord. It may cause a fire or an electric shock. Do not touch a power cord with wet hands. It may cause an electric shock.
- When the receiver is not used for a long period of time, you should unplug the power cord from the wall socket.
- Do not use alcohol or ammonia based liquids to clean the receiver. If you wish, you may clean your receiver with a soft lint-free cloth slightly made damp with a mild soap solution, and only after disconnecting from the mains voltage supply. Make sure no foreign objects fall through the ventilation slots because this could cause fire or an electric shock.
- Do not place any objects on top of the receiver because this might prevent proper cooling of the components inside.

Safety Precautions

- Never try to open the receiver. It is dangerous to touch the inside of the receiver due to high voltages and possible electrical hazards. Opening the receiver will void the warranty of the product. Refer all maintenance or servicing to suitably qualified personnel.
- When you are connecting cables, be sure that the receiver is disconnected from the mains supply voltage. Wait a few seconds after switching off the receiver before you move the receiver or disconnect any equipment.
- It is a necessity that you only use an approved extension and compatible wiring that is suitable for the electrical power consumption of the installed equipment. Please ensure that the electrical power supply corresponds with the voltage on the electrical identification plate at the back of the receiver.

If the receiver does not operate normally even after strictly following the instructions in this user manual, it is recommended to consult your dealer.

1.2 Storage

Your receiver and its accessories are stored and delivered in a packaging designed to protect against electric shocks and moisture. When unpacking it, make sure that all the parts are included and keep the packaging away from children. When transporting the receiver from one place to another or if you are returning it under warranty conditions, make sure to repack the receiver in its original packaging with its accessories. Failing to comply with such packaging procedures could damage the product and void your warranty.

1.3 Equipment Set-up

We recommend you consult a professional installer to set up your equipment. Otherwise, please follow the instructions below:

- Refer to the user manual of your TV and, if applicable, your antenna.
- Make sure that the HDMI cable and, if applicable, outdoor components are in a good condition.
- If you use TV SCART connection, use then well shielded SCART cable.

This user manual provides complete instructions for installing and using this receiver. The symbols serve as follows.

Warning	Indicates warning information.
Tips	Indicates any other additional important or helpful information.
MENU	Represents a button on the remote control or the receiver. **(Bold characters)**
Move to	Represents a menu item within a window. *(Italic characters)*

1.4 Accessories

- Installation Instructions
- 1 remote control unit
- 2x batteries (AAA type)

WARNING:	The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries. If rechargeable accumulators instead of batteries are going to be used (e.g. NiMH), we recommend using types with low self-discharge to ensure long time operation of your remote control.

1.5 Usage of external USB devices

- It is recommended to use USB 2.0 storage devices or higher. If your device is not compatible to USB 2.0 specifications, recording, playback and other multimedia functions of the receiver might not work properly.
- To ensure best performance of your USB storage device please format it via your receiver (through the menu "*Media*") to FAT32 system. Other file systems are not supported by the receiver. However, it is possible to use already NTFS formatted disks.
- TEKCOMM cannot guarantee compatibility with all types of USB storage devices.
- If you are going to use external USB HDDs (Hard Disk Drives), please consider that power specifications may exceed the supported output of your receiver (max.5 V/800 mA). If so, please connect your USB HDD to an according external power adapter.
- It is advised not to store important information on USB storage devices used with the receiver. Always make backups of data on your USB storage device before using it with this receiver. TEKCOMM will not take responsibility for any loss of information or circumstances caused by loss of information.

2.0 YOUR RECEIVER

2.1 DEFAULT PIN: 1234

2.2 Front Panel

Fig. 1

1.	**USB**	Connector for USB storage devices.
2.	**IR sensor**	Point your remote control towards this sensor.
3.	**Mode indicator**	RED indicates that the receiver is in STANDBY mode. GREEN indicates that the receiver is in OPERATING mode.
4.	**Standby/On button**	Switch receiver ON to running mode or STANDBY mode

2.3 Rear Panel

Fig. 2

1.	**ANT IN**	To connect to your antenna for reception of broadcasted signals.
2.	**HDMI**	To connect your receiver with your TV set using an HDMI cable.
3.	**TV SCART**	To connect your receiver with your TV set using a SCART cable.
4.	**Power cord**	Your receiver requires a supply voltage of 220 – 240 V AC (Auto-selectable), 50/60Hz +/-5%. Please ensure the local power specification meets these requirements before connecting your receiver to the wall outlet.

2.4 Remote control

Fig. 3

1.	⏻	Switches the receiver On/Standby
2.	🔇	Mutes all audio outputs of the receiver
3.	**PG+/PG-**	Page up/down in all list modes
4.	**DTV/VCR**	No function
5.	**INFO**	Opens the current channel information; 2x opens the current event information and 3x the signal information
6.	**VOL+/VOL-**	Increases/decreases the volume level
7.	**MENU**	Opens the main menu, in a menu you will get one step back
8.	**EXIT**	Exits from the menu or sub-menu
9.	▲▼	Menu Off: Change channel to next/previous. Menu On: Moves the cursor up/down.
10.	◀ ▶	Menu Off: Decreases/ increases the volume level. Menu On: Change settings for specific menus
11.	**OK**	Menu Off: Displays the current channel list Menu On: Activates the highlighted menu item.
12.	**RECORD**	Records the TV programme to the connected USB storage device
13.	**TIMESHIFT**	Activates the Timeshift function (Off/On)
14.	**0~9**	Enters a channel number in viewing mode or a value inside the respective menu
15.	**EPG**	Opens the EPG (Electronic Programme Guide) in TV mode

16. **RECALL**	Back to previously watched channel
17. **AUDIO**	Opens the audio language selection
18. **TV/RADIO**	Toggles between TV or RADIO mode
19. **FAV**	Opens the favourite group selection
20. **FILE**	Opens the Media Player list
21. **TTX**	Displays Teletext on the OSD (On Screen Display)
22. **SUBTITLE**	Shows a list of subtitle languages
23. ◀◀ ▶▶	Fast rewind/fast forward
24. **Coloured buttons**	For Multimedia and Teletext functions

2.5 Installing the batteries

Fig. 4

Open the cover on the remote control and insert 2x AAA batteries into the compartment. Correct position of the polar diagram shows the batteries inside the compartment.

1. Open the cover.
2. Insert the batteries.
3. Close the lid.

WARNING:	The batteries should not be recharged, disassembled, electrically short-circuited, be mixed or used with other types of batteries.

2.6 Using the remote control

Fig. 5

To use the remote control, point it towards the front of your receiver. The remote control supports a range of up to5 meters distance to the receiver at an angle of up to approx. 30 degrees.

NOTE:	Managing the receiver will be limited or not possible if there are obstacles between the remote control sensor (at the front panel of the receiver) and the remote control. Direct sunlight or very bright light can reduce or disturb the reception of the remote control signals.

3.0 CONNECTIONS

3.1 Connecting to a terrestrial antenna

Fig. 6

To receive broadcasted signals, your terrestrial indoor or outdoor antenna must be connected to the ANT IN connector on the back of the receiver. Use a properly shielded antenna cable and suitable connectors.

NOTE: If the signals at your location are too weak to receive proper signals with an indoor antenna, we recommend using an outdoor antenna which can be pointed towards the transmission tower. Ask your local dealer for more information.

3.2 Connecting to TV with HDMI cable

Fig. 6

The TV set shall be connected with the receiver using a good quality HDMI cable. This connection gives the highest possible quality.

3.3 Connecting to TV with SCART cable

Fig. 6

Your receiver is also equipped with a SCART connector; alternatively, the TV set can be connected to the receiver using a good quality SCART cable.

3.4 Connecting to a digital audio amplifier and TV using HDMI

Fig. 6

By connecting your receiver to the latest digital amplifiers or Home Cinema systems you will enjoy the best possible sound quality and multi-channel audio (depending on the broadcast). Connect the HDMI output of the receiver to an input of your amplifier, and then connect the HDMI output of the amplifier to your TV set. Select the correct input on your amplifier to watch and listen to programmes.

3.5 Connecting to an analogue Audio Amplifier

Fig. 7

Use an optional SCART to Cinch cable to connect your receiver to the analogue input of your Hi-Fi or audio amplifier to achieve best possible analogue audio quality, (if SCART is not in use for Video)

3.6 Connecting a USB storage device

Fig. 8

Connecting a USB device to the unit allows you to playback movies, music and picture files which are stored on it. See chapter **7.5.1. Mediaplayer**. Additionally, TV programmes can be recorded, put on hold (Timeshift) and played. See chapter **6. Operation**.

NOTE: It is recommended to use USB 2.0 storage devices or higher for recording and playback of TV programmes or HD movies.

NOTE: Timeshift/recording and playback only work properly when a fast USB storage device such as a USB2.0 HDD is connected to the receiver. Timeshift/recording and playback of HD content require a sufficient read/write speed of the used USB storage device.

4.0 STARTING UP FOR THE FIRST TIME

When you use your receiver for the first time, the *Welcome* "Easy install" menu appears. Use ▲▼ to move the highlight to the setting you wish to alter and use ◀ ▶ to change values. Start by selecting your language using ◀ ▶. Once you have selected your language, press ▼ to move the highlight to the next item and use ◀ ▶ to change.

Language	Here you can choose your language.
Region:	Select your region where this receiver is used.
Subtitle:	Select *Normal* to display subtitles per default, Select *Hard of Hearing* to show HoH subtitles per default. Select *Off* to hide subtitles per default.*
Aspect Mode:	Use this option to select the aspect ratio of your TV and the preferred conversion method. The options are: *Auto* (automatic detection of aspect ratio), *4:3 Panscan* (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3 letterbox* (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).
Scan mode:	Select *All* to store scrambled and free to air channels or select *Free* to store only free to air channels. Note: Scrambled channels cannot be viewed with this receiver.
Connection:	Use this option to adjust the established connection to your TV set. Select *HDMI* or *TV SCART*.

* Availability of DVB/HoH subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext, if available.

When all settings have been made, move the highlight to *OK* and press **OK** to continue.

NOTE:	Wrong region selection can lead to missing channels or channels being stored at wrong positions in the channel list.

The receiver will now advance to the *Aerial Adjustment* screen.
This part of the wizard is of great help when setting up your antenna system.
Use ▲▼ to move the highlight to the setting you wish to alter and use ◀ ▶ to change values. The following settings are available:

Antenna Power:	Set to *On* if you use an active antenna. When set to *On*,5 V will be present at the ANT IN connector of the receiver. Select *Off* for passive antennas.
Beeper:	Select *On* for an audible indication of signal reception. *Off* turns the beeper off.
Channel No.:	Select a channel that is known to carry a broadcast in your region. The *Signal Strength* and *Signal Quality* bars give a visual indication of the reception. Adjust your antenna to obtain maximum signal strength and quality.

When all settings have been made, press **OK** to start scanning.
The receiver will search for all available channels now. Once scanning is finished, the receiver switches to viewing mode.

TIP:	If the *Welcome* menu does not appear after switching on the receiver the first time, reset the receiver to factory settings by pressing the **MENU** button and selecting *Load Factory Setting* in the submenu *Tools*. (**DEFAULT PIN: 1234**).

5.0 QUICK GUIDE TO USING YOUR RECEIVER

We at TEKCOMM understand that you can't wait to enjoy your new digital terrestrial HD receiver. The following quick guide will make you familiar with the basic operation of this device. We do, however, advice you to read the full manual to get the best performance from your receiver.
To turn your receiver ON or to Standby, use the ⏻ button on the remote control.
Choose a channel with ▲▼. Alternatively, you can digit the channel number with the **0~9** buttons on the remote control or press **OK** in viewing mode to display the channel list. The volume can be adjusted with ◀ ▶.

6.0 OPERATION

6.1 Changing channels

Following ways are possible for changing channels with your new receiver:

- Via direct access using the **0~9** buttons.
- Via the channel list using **OK** and the **PG+/PG-** buttons.
- Via the ▲▼ buttons.

6.1.1 Direct access via 0~9 buttons

To gain direct access to a certain channel, simply input its number with the **0~9** buttons on the remote control. Channel numbers can be up to four digits long. Entering a number with less than four digits is possible. Just wait a few seconds and your receiver will switch to the selected channel or press **OK** immediately after selecting the channel number.

6.1.2 Channel list

Press **OK** in viewing mode to display the *Channel List*. Use ▲▼ in the channel list to highlight your channel of choice and press **OK** once to select the highlighted channel. Press **OK** again to leave the channel list mode. Inside the channel list it is possible to use the **PG+/PG-** buttons as well in order to scroll page-wise through the list.
TIP: Use ◀ ▶ to toggle between the *All Channel* list and favourite list(s) or press **FAV** in viewing mode for a list of the available favourite lists.

6.1.3 Using the ▲▼ buttons

▲ switches to the next channel.
▼ switches to the previous channel.

6.2 Info Banner

While watching TV you can press the **INFO** button at any time to access current information about the channel and event*. Press **INFO** twice for extended EPG details about the current channel. Press **INFO** three times for technical details about the current channel.

* Event information is displayed when available. Availability depends on the broadcast.

6.3 Selection of audio language

Some channels support a choice of audio formats and/or languages. To select another audio stream, press **AUDIO** in viewing mode. A list with available audio streams will now be displayed. Use ▲▼ to select a stream and confirm with **OK**. The audio channel as stereo, mono, left and right can be selected with the ◀ ▶ buttons.

6.4 Teletext

Your receiver includes a fully featured Teletext. To access Teletext, press the **TTX** button in viewing mode and use the **0~9** buttons to input the number of the page you wish to see. The coloured buttons of the remote control allow you to jump to selected pages directly, as indicated on the bottom of the Teletext screen. Use the ▲▼ buttons to select one page up or down, use the ◀ ▶ buttons to select subpages. Press **EXIT** or **TTX** to get back to viewing mode.

6.5 Subtitles

Some channels support a choice of subtitle languages. Press **SUBTITLE** in viewing mode to display a list of available subtitle languages. Select your subtitle of choice with ▲▼ and press **OK** to confirm. Press **EXIT** to leave without making changes.*

* Availability of DVB/HoH subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext if available.

6.6 Timeshift

Timeshift allows you to pause live broadcasts and resume playback later. To activate this function set the Timeshift mode in the *DVR Setting* menu to on by selecting *Pause*. For details, see **7.6.3**. Press ❚❚ in viewing mode to activate Timeshift. The progress information banner appears on screen. Live TV keeps playing for moment and will then pause. Press ▶ to resume Timeshifted playback. Press **STOP** to return to live TV.

NOTE:	Timeshift and its playback only work properly when a fast USB storage device such as a USB2.0 HDD is connected to the receiver. Timeshift and playback of HD content requires sufficient read/write speed of the used USB storage device .

6.7 EPG (Electronic Programme Guide)

The Electronic Programme Guide is a very useful function that allows you to view event schedules and programme information and to mark events/movies for recording. To access the EPG, press the **EPG** button in viewing mode. Use ▲▼ to select a channel and ◀ ▶ to select an event. Press **OK** to display detailed information of the selected event. Use **EXIT** to quit the detailed information screen. Press **RED** to access further step functions. Use ◀ ▶ to select a step and **OK** to execute it. Press **EXIT** to quit the step function. Press **GREEN** to set a timer for a selected event. Refer to section **7.3.4** for details of the timer function.

NOTE:	Availability of EPG data depends on the broadcast.

6.8 Instant Recording

Your new receiver allows you to make an instant recording of the programme you are watching. Simply press **RECORD** to start the recording. To enter the duration for the recording, press **RECORD** again, while the program banner is visible. Use the **0~9** buttons to enter the recording time and press **OK** to confirm.
At the beginning of the recording a recording sign will be shown for a short while on the upper left corner of your TV screen. To stop the recording, press **STOP**. Select *Yes* and press **OK** again to stop the recording. It is possible to make2 recordings at the same time if they are broadcasted on the same frequency.
You can access the Record Manager via the **FILE** button, and select *Record* by pressing the button **1**.

* Please connect a USB storage device with sufficient free space before you start a recording.

7.0 MAIN MENU

The main menu gives you access to settings, multimedia functions and games. To access the main menu, press **MENU** in viewing mode. The main menu consists of the following sub menus: *Edit Channel*, *Installation*, *System Setup*, *Tools*, *Games* and *Media*.
Throughout the main menu, **MENU** or **EXIT** can be used to get back to the previous screen.

7.1 Edit Channel

Use ▲▼ to select *Edit Channel* and press **OK** or ▶ to enter.
Use ▲▼ to highlight the submenu of choice and press **OK** to select.
Press **EXIT** or ◀ to get back to the main menu.

7.1.1 TV Channel List

In the *Edit Channel* menu select *TV Channel List* with ▲▼ and press **OK** to enter.
Use ◀ ▶ to change the channel group (if you have already set up favourite groups).
Select the channel of choice with ▲▼. Press **OK** to view the selected channel in the preview box.

7.1.1.1 Adding channels to favourite lists

Channels from the *TV Channel List* can be added to up to8 different favourite groups. Press **FAV** in *TV Channel List* to access this function. The *FAV* sign on the top of the screen will move up to indicate that the favourite function is selected. Use ▲▼ to select a channel you wish to add to a favourite group. When the highlight is on the channel of your choice, press **OK**. A list with all available favourite lists will now pop up. Use ▲▼ to select the favourite list you wish to add the channel to and press **OK**, press **EXIT** to finalize the process. Favourite channels will be marked with ♥. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.2 Locking channels

Locked channels can only be watched after entering the PIN code. **(DEFAULT PIN: 1234)**
To lock or unlock a channel, press **RED** while in *TV Channel List*. Press ▲▼ to select a channel and press **OK** to lock or unlock it. You are asked to input the PIN code. **(DEFAULT PIN: 1234**> Locked channels will be marked with the **LOCK** symbol. Locking/unlocking multiple channels in one session

is possible. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.3 Skipping channels

Channels marked with *Skip* will be skipped when zapping channels with the ▲▼ buttons. The channels will still be available from the channel list.
To mark channels for skipping, press **GREEN** while in *TV Channel List*. Use ▲▼ to select a channel and press **OK** to mark or unmark it for skipping. Channels set for skipping will be marked with the ↩ symbol. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.4 Moving channels

To enable the Move function, press **YELLOW** while in *TV Channel List*. Use ▲▼ to select a channel and press **OK** to select it. Now you can move the selected channel up or down inside the channel list by using ▲▼. When the channel is on the position of your choice, press **OK** again. The channel is now fixed on its new position. When all changes have been made, press **EXIT** twice. A confirmation banner will pop up. Select *Yes* to save the changes or *No* to discard.

7.1.1.5 Editing channels

The Edit function allows you to *Sort*, *Rename* or *Delete* channels. To enter the Edit menu, press **BLUE** while in *TV Channel List*. The *Edit Channel* menu will appear.
If you made changes in the previous menu, but haven't saved them yet, you will be asked to do so now.

Sort
Press **RED** to enter the *Sort* menu.
Use ▲▼ to select sorting method and press **OK** to confirm.
Possible methods are:

Name (A-Z):	Sorting in alphabetical order from A to Z.
Name (Z-A):	Sorting in alphabetical order from Z to A.
Free/Scramble:	First in the list will be Free-To-Air channels.
Lock:	All unlocked channels will placed first in the list.
Default:	Sorting by searched Order (from lowest to highest frequency or by LCN numbering).

Rename
Press **GREEN** in *Edit Channel* to enable the *Rename* function. The *Rename* sign will move up to indicate that *Rename* is selected. Use ▲▼ to highlight a channel and press **OK** to select it. A text field will now pop up at the right of the screen. Use ◀▶ ▲▼ to select characters and enter them with **OK**. When you have finished editing, press **BLUE** to enter the changes. When all changes have been made, press **EXIT** twice. Select *Yes* to save the changes or *No* to discard.

Delete
Press **BLUE** in *Edit Channel* to enable the *Delete* function. The *Delete* sign will move up to indicate that *Delete* is selected. Use ▲▼ to highlight a channel and press **OK** to mark it for deletion. When

you have marked all channels you wish to delete, press **EXIT** twice. A confirmation banner will be displayed. Select *Yes* to delete the marked channels or *No* to cancel.

7.1.2 Radio Channel List

Basically, the operation of the *Radio Channel List* is the same as in the TV Channel List. The only difference is that in *Radio Channel List* there is no video information, so it will always display the radio background on the preview screen.

7.1.3 Delete all

Use this menu to delete all stored channels. Select *Delete All* with ▲▼ and press **OK**. The receiver asks you to enter the pin code. **(DEFAULT PIN: 1234)**. Inside the confirmation window select *Yes* with ◀ ▶ and press **OK** to delete or select *No* to cancel.

WARNING:	The Delete all function will permanently delete all current channels and all favourite lists from your receiver, and you are not able to leave the menu until you search for channels again.

7.1.4 Rename Favourite list

This menu allows you to personalize the names of the8 available favourite lists.
Use ▲▼ to select *Rename Favourite List* from the *Edit Channel* Menu and press **OK** to proceed. The names of all groups are now displayed. Select a favourite group with ▲▼ and press **OK** to edit its name. A text field will now pop up at the right of the screen. Use ◀ ▶ ▲▼ to select characters and enter them with **OK**. When you have finished editing, press **BLUE** to save the changes. When all changes have been made, press **EXIT** twice to leave this menu.

7.2 Installation

7.2.1 Auto Scan

Use ▲▼ to select *Installation* and press **OK** or ▶ to advance.
Select *Auto Scan* with ▲▼ and press **OK** to enter.
Use ◀ ▶ to toggle between *Yes* or *No*. When *FTA Only* is set to *Yes*, scrambled channels won't be stored in the channel list. Use ▲▼ to highlight *Search*. Now press **OK** to start the auto scan.
The receiver will store all found channels in the channel list.

7.2.2 Channel Scan

Use ▲▼ to select *Installation*, press **OK** or ▶ to advance.
Use ▲▼ to select *Channel Scan* and press **OK** to enter.
Use ◀ ▶ to toggle between the available scan modes: *By Channel* and *By Frequency*.
If *By Channel* is selected, use the cursor buttons to select *Scan Band* and *Channel No*. If *By Frequency* is selected, use the cursor buttons to select *Frequency* and *Bandwidth*. Highlight *Search* and press **OK** to start scanning. Newly found channels will be added to the channel list.

7.2.3 Antenna Power

Use ▲▼ to select *Installation*, press **OK** or ▶ to advance.
Use ▲▼ to select *Antenna Power* and press **OK** to enter.
Set to *On* if you use an active antenna.
Select *Off* for passive antennas.
When set to *On*,5 V will be present on the ANT IN connector of the receiver.
Press **EXIT** to leave the *Antenna Power* menu.

7.2.4 LCN (Logical Channel Numbering)

If *LCN* (Logical Channel Numbering) is activated and an LCN signal is provided by the operator, channels will be stored in the operator defined order. Set *LCN* to *On* to activate the operator defined channel numbering or *Off* to store channels in the found order. This function only applies when a new channel search is performed.

7.3 System Setup

This menu allows you to manage the system settings of your receiver. It consists of the following sub-menus: *Language*, *TV System*, *Local Time Setting*, *Timer Setting*, *Parental Lock*, *OSD Setting* and *Auto Standby*.
Press ▲▼ to highlight the menu of choice and press **OK** advance to the next screen. Use ▲▼ to move the highlight to the setting of choice. Values can be changed with ◀ ▶. Press **EXIT** to leave.

7.3.1 Language

This menu allows you to set up your language preferences.

Language:	Use ◀ ▶ to select the language for the On Screen Display.
First Audio:	Use ◀ ▶ to select Audio language.
Second Audio:	Use ◀ ▶ to select a language that will be played when the language selected at *First Audio* isn't available.
Subtitle Language :	Use ◀ ▶ to select the preferred subtitle language.
2nd Subtitle Language :	Use ◀ ▶ to select the preferred 2nd subtitle language.
Teletext:	Use ◀ ▶ to select the preferred Teletext language (when available).
Subtitle:	Use ◀ ▶ to select the preferred subtitle type to be displayed automatically. Select *Normal], {Hard of Hearing* or *Off**

* Availability of DVB/HoH subtitles depends on the broadcast. If subtitles are not supported, they can be activated via Teletext if available.

7.3.2 TV System

Use this menu to match your receiver to your TV set. The following settings are available:

Video Resolution:	Use this option to select the video resolution of your TV screen. The options are: *By Source* (automatic detection of video resolution offered to the receiver), *By Native TV* (automatic detection of maximal resolution of TV screen), and manual selections *480i, 576i up to 1080p*. Use a setting that matches the specifications of your TV. After a selection is made, you will be asked to confirm. Selection above 576i is only applicable on HDMI output.

Aspect Mode:	Use this option to select the aspect ratio of your TV and the preferred conversion method. The options are: *Auto* (automatic detection of aspect ratio), *4:3 Panscan* (Displays 16:9 widescreen broadcasts full screen on your 4:3 TV), *4:3 letterbox* (black bars on top and under the picture on a 4:3 TV) and *16:9* (use this setting for 16:9 TV sets).
Connection:	Use this option to select the connection to your TV set. Select *HDMI* or *TV SCART* (RGB). If connection type HDMI is selected, then only the CVBS signal is available on the TV SCART.
Digital Audio Output:	Toggles between *PCM* and *Bitstream* output. When *PCM* is selected, all digital audio will be converted to stereo audio. *Bitstream* enables you to listen or transfer Dolby® Digital/Dolby® Digital Plus* audio to the TV via HDMI or to a Home entertainment system.

NOTE:	Dolby® Digital Plus* is only available on the HDMI output.

* Dolby and the double-D symbol are registered trademarks of Dolby Laboratories

7.3.3 Local Time Setting

Here you can set up your region and time zone.

Region:	Use ◀ ▶ to select the region you live in.
GMT Usage:	Set to *By Region* for broadcaster defined time, *User Define* to select manual a GMT zone or to *Off* to input time and date manually.
GMT Offset:	Allows you to adjust your time zone. This option is only available when *GMT Usage* is set to *User Define*.The *GMT Offset* range is "-11:30 ~ +12:00", increasing by half hours progressively. The cities matching the set *GMT Offset* are displayed at the bottom of the screen.
Daylight Saving:	Select *On* to add one hour for summer time.
Date:	*Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the **0~9** buttons to enter the date. Press **EXIT** to proceed.
Time:	*Date* and *Time* settings are available only when *GMT Usage* is set to *Off*. Use the **0~9** buttons to enter the time. Press **EXIT** to proceed.
Time Display	Select *On* to display time on screen, *Off* to remove.

7.3.4 Timer Setting

This menu allows you to set up to8 timed events for recording or waking up the receiver.
Use ▲▼ to select *Timer Setting* from the *System Setup* menu and press **OK** to enter.
The receiver will display a list with8 timers, followed by their respective status. Select the timer you wish to set or change with ▲▼ and press **OK** to proceed.
The timer setup menu will now be displayed.
The following settings are available:

Timer Mode:	Choose between *Off* the timer is inactive, *Once*, *Daily* (the timer will be executed every day, same time) or *Weekly* (the timer will be executed every week, same day, same time) and *Monthly* (the timer will be executed every month, same day, same time).

Timer Service: Choose between *Channel* (the timer will wake up the receiver) or *Record* (Timer will start recording the scheduled event).
Wakeup Channel: Use ◀ ▶ to select the channel the timer will wake up with.
Wakeup Date: Use the **0~9** buttons to enter the date for the timed event.
Wakeup Time: Use the **0~9** buttons to enter the starting time.
Duration: Use the **0~9** buttons to enter the duration of the timer.
When all settings have been made, use ▲▼ to move the highlight to *Save* and press **OK** to confirm. To quit the timer without saving your settings, move the highlight to *Cancel*.

7.3.5 Parental Lock

This menu allows you to protect the installation menu and/or channels with a PIN code. You can also enter a new PIN code in the *Parental Lock* menu.
Use ▲▼ to select *Parental Lock* from the *System Setup* menu and press **OK** to proceed. You will be asked to enter your PIN code. **(DEFAULT PIN: 1234)**
Menu Lock: Locks the installation menu. You can set *Menu Lock* to *On* or *Off*.
Parental Rating: Choose between: *Off*, *4 years* and up to *18 years*. Channels with a parental rating above the chosen age will be protected with a PIN code (if available in your local broadcast.)
New Password: Enter your new PIN code (4 digits) here.
Confirm Password: Re-enter your PIN code here to confirm.

7.3.6 OSD Setting

This menu allows you to change settings for: *OSD Timeout* and *OSD Transparency*.
OSD Timeout: Sets the duration time of on screen banners and messages remove. The range is *1~10* seconds or *Always On*.
OSD Transparency: To set the OSD transparency from *Off ~ 40%* with 10% steps.
Load Default OSD Setting:
Press **OK** to clear all OSD settings and reset to default values.

7.3.7 Audio Description Setting

For the visually impaired, a new feature is developed, adding a spoken description to the original audio about the video content.

NOTE: This is subject to availability by the broadcaster.

Switch the service *On* or *Off*.
A transmission with AD will then be signalled in the info banner.
Switch also Use as default to *On*, it will automatically cause the AD audio track to be mixed with the original audio and made audible.
With AD Volume Offset the level of the added description can be adapted (-3 to +3)

7.3.8 Auto Standby

Auto Standby is a new feature that helps you reducing power consumption. When set to *30Min/1 Hour/2 Hours or 3 Hours*, the receiver will switch to standby if it doesn't receive any commands during this time. Set *Auto Standby* to *Off* to deactivate the automatic standby function.

7.4 Tools

Press **MENU** in viewing mode to enter the *Main Menu*.
Select the *Tools* submenu with ▲▼ and press **OK** or ▶ to enter.
Use ▲▼ to highlight the submenu of choice and press **OK** proceed.
Press **EXIT** to leave.

7.4.1 Information

This submenu shows receiver specific information such as hardware version and software version. It also displays our web address www.tekcomm.tv. Please have the *Information* screen on hand when you call our hotline. The person who answers your call might ask for the information given in this screen.

7.4.2 Load Factory Settings

This option allows you to reset the receiver to factory settings, which clear all stored channels.

WARNING:	By resetting your receiver to factory default, all your settings and stored channels will be permanently deleted. Please use this option with care.

Use ▲▼ to select *Load Factory Settings* in the *Tools* menu and press **OK**. You are asked to input your PIN code.
Input the correct PIN code using the **0~9 (DEFAULT PIN: 1234)**. A confirmation window is displayed.
Select *Yes* to return to factory settings. Select *No* to cancel.
Press **EXIT** to leave.

7.4.3 S/W Upgrade by OTA

This receiver is equipped with an Over The Air software upgrade function. An Over The Air update might not be available in your region. Please visit our website www.tekcomm.tv or contact your local service hotline for more information about this option.

7.4.4 Upgrade by USB

This feature allows you to upgrade receiver software via the USB port. When new software is available for your receiver, it can be downloaded from our website www.tekcomm.tv.
Place the software file (unzipped) in the root directory of your USB storage device (HDD, memory stick etc.) and connect the device to the USB port of the receiver.
Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed.
The upgrade menu will now be displayed.
Use ▲▼ to select *Update Mode* and choose option *Allcode*.
Use ▲▼ to select *Upgrade File* and choose the file containing the latest and correct software.
When all settings have been made, move the highlight to *Start* and press **OK** to start the upgrade process.
After a few seconds, the receiver asks: "Are you sure to burn flash?". Select *Yes* to finalize the upgrade or *No* to quit without upgrading.

NOTE:	If, after a software upgrade, the receiver should behave in an unexpected way, please perform a factory reset as well. See chapter **7.4.2**.

WARNING:	After an update the receiver restarts automatically. During the upgrade process NEVER disconnect the receiver from the mains or switch off the power! Doing so might damage your receiver and will void warranty!

7.4.5 Channel Dump and Load function

This feature allows you to load a channels list quickly and use a channel list that previously was created on this (backup) or another receiver from the same model via the USB port. This is useful when more receivers have to be installed in the same region, thus omitting a full scan and (optional) sorting of channels. It is also useful as a backup for your own unit.

Channel Dump function (backup to USB)
Have a storage device connected to the USB port of the receiver. Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed. The upgrade menu will now be displayed.
Use ▲▼ to select *Update Mode* and choose the option *Dump channel list*.
Use ▲▼ to select *Upgrade File*. A DataBase file name containing date and time will be presented, format DBYYYYMMDDHHMM (DateBaseYearMonthDateHourMinute.udf).
Use ▲▼ to select *Start* and press **OK** to proceed. The channel list and favourites will be saved.

Update Channel list function (read from USB)
Have the storage device connected to the USB port of the receiver, containing a previously made channel list on this unit or another of the same model. Select *Upgrade by USB* from the *Tools* menu and press **OK** to proceed. The upgrade menu will now be displayed.
Use ▲▼ to select *Update Mode* and choose the option *Update Channel list*.
Use ▲▼ to select *Upgrade File*. Select the correct database file name, format DBYYYYMMDDHHMM (DateBaseYearMonthDateHourMinute.udf).
Use ▲▼ to select *Start* and press **OK** to proceed. Confirm the upgrade with **OK** to proceed.
Warning Old channel list and favourites will be overwritten.
After completion, the unit will reboot and come back with the first channel in the new channel list.

7.4.6 Auto-update OTA

If set to *On* the unit will check automatically at the moment of going to stand-by for an Over The Air software upgrade.
An Over The Air update might not be available in your region. Please visit our website www.tekcomm.tv or contact your local service hotline for more information about this option.

7.5 Games

Your receiver is equipped with two games which can be played on your TV screen using the receiver remote control.

Use ▲▼ to select *Games* from the Main menu and press **OK** or ▶ to proceed.
Select one of the available games (*Othello* or *Sudoku*) using ▲▼ and press **OK** to start the game.
Follow the directions on screen. Press **EXIT** to quit a game.

7.6 Media

The *Media* menu consists of the following submenus: *Media Player*, *HDD Information*, *DVR Setting* and *Remove USB device safely*.
Use ▲▼ to highlight the menu of choice and press **OK** to enter. Press **EXIT** to quit.

7.6.1 Media Player

This function allows playback of different kind of files from the connected USB storage device. In the *Media* menu, select *Media Player* and press **OK** to enter this menu.
When entering the media player, the highlight is on the USB storage device. Press ▼ and **OK** to open the directory respectively its folders/subfolders.
First select which files you like to play back. Press **1** to switch between Video/Record/Music or Image.
Press ▲▼ to select a file or folder and then press **OK** to open the folder/subfolder (if applicable) or start playback of the file. Press the **EXIT** button to exit.
Use the buttons like described below in order to choose functions during the different playback modes (like described in the help banner below):

Video:

INFO:	Press the **INFO** button to set repeat mode. The options are repeat folder *folder icon*/repeat once *1* or no repetition (no icon shown).
1:	During the playback of a movie with external subtitles, press **1** to enter the subtitle menu. In this menu you can select size and colours of your preference.
2:	Press **2** to open the Sort menu. You can sort by Name/Time or Size.
7:	Press **7** to open the Edit menu. This menu allows accessing the following functions by entering the number: rename **4**, copy **5**, delete **6**, create folder **7**.
EXIT:	One step back or leave the folder and quit the function.

Record:

2:	Press **2** to enter a new name for the selected recording.
3:	Highlight the recording that you want to lock. After pressing **3** you will be asked to input your PIN code. **DEFAULT PIN: "1234"**. After entering your PIN code, the recording is locked. If you want to unlock the recording again, press **3** again.
4:	Press **4** to mark the recording you want to delete. By selecting the same recording and pressing **4** again you can remove the delete marker again. Press **EXIT** to delete.
EXIT:	One step back or leave the folder and quit the function.

Music:

4:	Press **4** to open a previously created play list. Then you can select the music file that you want to add your play list by pressing **5** (a single file will be

	added to the play list) or **6** (all files of this directory/folder will be added to the play list).
5:	Press **5** to add a file to the playlist. A favourite icon will be shown next to the file.
6:	Press **6** to add all files of this directory/folder to the play list. Press **6** again to delete all files from the play list.
7:	Press **7** to open the Edit menu. This menu allows access to the following functions by entering the number: rename **4**, copy **5**, delete **6**, create folder **7**.
2:	Press **2** to open the sort window. You can sort by Name/Time/Size and Favourite.
INFO:	Press the **INFO** button to set repeat mode. The option is Repeat Folder/ Random Folder/Repeat One.
EXIT:	One step back or leave the folder and quit the function.

Image:

4:	Press **4** to open a previously created play list. Then you can select the image file that you want to add your play list by pressing **5** (a single file will be added to the play list) or **6** (all files of this directory/folder will be added to the play list).
5:	Press **5** to add a file to the play list. A favourite icon will be shown next to the file.
6:	Press **6** to add all files of this directory/folder to the play list. Press **6** again to delete all files from the play list.
7:	Press **7** to open the Edit menu. This menu allows access of the following functions: rename **4**, copy **5**, delete **6**, create folder **7**.
2:	Press button **2** to open the sort window. You can sort by Name/Time/Size and Favourite.
INFO:	Press **INFO** to access slideshow settings. You can change the slide time and slideshow repetition.
3:	Press **3** to show the files in a preview of 3x3 pictures.
EXIT:	One step back or leave the folder and quit the function.

7.6.2 HDD Information

This option shows relevant information about the connected USB device. In this menu you can also format your USB storage device and setup the recording type.
Select *HDD Information* in the *Media* menu and press **OK** to enter.
Now you will see all details as Free and the used Recording Sizes and the used file system.
Press the **YELLOW** button *Format* to format the connected USB device.
Please, enter your PIN code to access this menu and press **OK** to start formatting.

WARNING:	Formatting will permanently delete ALL data stored on the connected device. Please make a backup copy of all data you wish to keep before entering the *HDD Format* menu. TEKCOMM cannot be held responsible for loss of data from USB devices used with this receiver.

Press **OK** to proceed, select *FAT* or *Cancel*, or press **EXIT** to leave without formatting.
Press **BLUE** *DVR Set* to select recording type.
Select *REC & TMS* to store recordings and Timeshift copies to your HDD.
Select *Record* to store only recordings to your HDD.
Select *Timeshift* to switch recordings OFF. Only the Timeshift function is active.

NOTE: It is possible to use USB storage devices already formatted in NTFS.

Press **EXIT** to leave this menu.

7.6.3 DVR Setting

This menu allows you to configure settings for Timeshift, recording and playback.
Select *DVR Setting* in the *Media* menu and press **OK** to enter.
Use ▲▼ to move the highlight and ◀ ▶ to change settings.

Timeshift: Select between *Auto*, *Pause* or *Off*. When *Timeshift* is set to *Auto* it will automatically start every time after tuning to a channel. When *Timeshift* is set to *Pause* it will start only after pressing the **YELLOW/❙❙** button. Select *Off* to deactivate Timeshift.

Step to: *30 sec* to *30 min*. Set the time step you like to jump forward to by pressing **4** during playback of recorded files. This only works when the info banner is displayed on screen. If it is not, press **INFO**.

Time Shift to Record: If set to *On* the timeshifted part will be included in your recording when you start to record the current programme.

PS Record: Select between *On* or *Off*. When *Off* is selected, recordings will also include subtitles and Teletext (when available). Record to PS mode *On* allows recordings without these extras and will need less space on your USB device.

Press **EXIT** to leave this menu.

7.6.4 Remove USB device safely

Select *Remove USB device safely* from the tools menu and press **OK**. The receiver will display a message indicating that you can safely remove your storage device from the receiver.

NOTE: After performing this function, the USB device is no longer accessible from your receiver. To gain access to your storage device again, re-insert it or switch the receiver to standby and on again.

A.1 Troubleshooting

There may be various reasons for abnormal operation of the receiver. Check the receiver according to the procedures shown below. If the receiver does not work properly after checking it, please contact your dealer or the local Service Hotline. Do NOT try to open or disassemble the receiver. It may cause a dangerous situation and warranty will be void.

Problem	Possible cause	What to do
The LED indicator does not lit	Mains lead is unplugged	Check the mains plug
No signal found	The antenna is disconnected The antenna is damaged/ misaligned Out of digital signal area The active antenna requires the antenna power/external power to be switched ON	Check the antenna lead Check the antenna Check with your dealer Switch the antenna power of the receiver ON/connect external power
No picture or sound on TV or amplifier	HDMI or SCART are not selected on your TV or the amplifier or unit are set to a higher resolution than the TV supports. TV/amplifier are not switched on	Switch to the correct TV/amplifier input Select a lower resolution on the receiver Switch the TV/amplifier on.
Scrambled channel message	The channel is scrambled	Select an alternative channel
No response to the remote control	The receiver is off The remote control is not aimed correctly The front panel is obstructed The batteries of the remote control are exhausted	Plug in and turn on the plug Aim the remote control at the front panel Check for obstructions Replace the batteries of the remote control
Forgotten PIN code Forgotten channel lock code		Default PIN is 1234 Contact the local Service Hotline or send an email to our Support via www.tekcomm.tv
After moving the receiver to another room/area you are no longer able to receive digital reception	The antenna signals are too weak The signal strength/quality might be less than before, if using an indoor antenna.	Press INFO on the remote control 3x to call up the signal bars and adjust the antenna for (maximum) reception or rescan channels When using an active antenna, check antenna power. Try to use an outdoor antenna.
The receiver switches off automatically.	The Auto Standby function is enabled.	Disable the auto standby. See section 7.3.7 for details.
Playback of video (or Timeshift) is causing picture freeze/macro blocks or similar distortion, especially on HD content.	The reading/writing speed of your USB device may be too low.	Make sure to use a USB storage device with sufficient speed and space. Pen drives ('USB sticks') may not support sufficient speed.

A.2 Technical Specifications

Demodulator

Demodulator:	COFDM;16 QAM/64 QAM, QPSK
Transmission mode:	2 K - 8 K

Video Decoder

Profile level:	MPEG-2 MP@ML, AVC/H264HP@L4.1, MPEG4 ASP supported
Video resolutions:	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, By Native TV, By source
Decoding & Video out:	PAL
Aspect ratio:	4:3 Letterbox, 4:3 Pan & Scan, 16:9, Auto

Audio Decoder

Audio support:	AAC/Dolby Digital Plus*/AC3/PCM/AC3+ MPEG MusiCam Layer II
Sampling rate:	32, 44.1,48 KHz
Audio mode:	Stereo, Mono

* Dolby and the double-D symbol are registered trademarks of Dolby Laboratories

Tuner

Front End:	DVB-T, UHF & VHF Tuner
Input frequency range:	174 – 230 MHz (VHF) and 470 - 862 MHz (UHF)
Input signal level:	-20 ~ -84 dBm

Memory and System

Flash memory:	4 MB
SDRAM:	64 MB

Multimedia

Video playback:	MPEG-1 and MPEG-2 encoded (mpg), VOB, AVI, MKV, TS, M2T, M2TS, MPEG-4 and MOV*
Audio playback:	MP3, OGG*
Picture view:	BMP, JPEG*

* TEKCOMM cannot guarantee the playback of all files although extensions are listed, as it depends on codec used, data bit rate and resolution (all MPEG codec formats are supported).

Connectors

ANT IN - IEC Female
HDMI
TV SCART (RGB, CVBS, Audio L&R)
USB 2.0 port: 5 V/800 mA (max.) supported

General Data

Supply voltage:	220 - 240 V AC (SMPS), 50/60 Hz

Power consumption:	3.65 W (typ.), 12.00 W (max)
Power consumption in standby:	max. 0.4 W
Operating temperature:	0 °C ~ +40 °C
Storage temperature:	-10 °C ~ +50 °C
Operating humidity range:	10~85%, RH, Non-condensing
Size (WxDxH) in mm:	141 x 113 x 40
Net-weight:	0.31 kg